



SIMATIC HMI KTP400F Mobile with integrated acknowledgement button, emergency switching-off switch, Touch and Key operation, 4" widescreen TFT display, PROFINET interface, configurable from WinCC Comfort V13 SP1 with HSP

| General information | |
|---|------------------------|
| Product type designation | KTP400F Mobile |
| Display | |
| Design of display | TFT |
| Screen diagonal | 4.3 in |
| Color display | Yes |
| Number of colors | 16 777 216 |
| Resolution (pixels) | |
| • Horizontal image resolution | 480 pixel |
| • Vertical image resolution | 272 pixel |
| Backlighting | |
| • MTBF backlighting (at 25 °C) | 50 000 h |
| • Backlight dimmable | Yes; 0-100 % |
| Control elements | |
| Keyboard fonts | |
| • Function keys | |
| — Number of function keys | 4 |
| — Number of function keys with LEDs | 4 |
| • Keys with LED | Yes |
| • Numeric keyboard | Yes; Onscreen keyboard |
| • alphanumeric keyboard | Yes; Onscreen keyboard |
| Touch operation | |
| • Design as touch screen | Yes |
| • Design as multi-touch screen | No |
| Special operator controls | |
| • Stop button (forced blocking) | Yes |
| • Emergency stop button (illuminated and forced blocking) | Yes |
| • Acknowledgement button (3-stage) | Yes |
| • Key-operated switch | No |
| • Illuminated pushbutton | Yes |
| Camera | |
| • integrated camera | No |
| Expansions for operator control of the process | |
| • Direct keys (touch buttons as S7 input I/O) | 32 |
| Supply voltage | |
| Type of supply voltage | DC |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |


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| permissible range, upper limit (DC) | 28.8 V |
| Input current | |
| Current consumption (rated value) | 210 mA |
| Starting current inrush I _{st} | 0.37 A ² ·s |
| Power | |
| Active power input, typ. | 5 W |
| Processor | |
| Processor type | ARM |
| Memory | |
| Flash | Yes |
| RAM | Yes |
| Memory available for user data | 4 Mbyte |
| Type of output | |
| Power LED | No |
| LED for safe | No |
| LED for communication | No |
| LED for battery | No |
| Vibrations | No |
| Time of day | |
| Clock | |
| • Hardware clock (real-time) | Yes |
| • retentive | Yes |
| • synchronizable | Yes |
| Interfaces | |
| Number of industrial Ethernet interfaces | 1 |
| Number of PROFINET interfaces | 1 |
| Number of RS 485 interfaces | 0 |
| Number of RS 422 interfaces | 0 |
| Number of RS 232 interfaces | 0 |
| Number of USB interfaces | 1; USB 2.0 |
| Number of wireless interfaces | 0 |
| Number of SD card slots | 0 |
| Protocols | |
| PROFINET | Yes |
| Supports protocol for PROFINET IO | Yes |
| PROFIsafe | Yes |
| PROFIBUS | No |
| EtherNet/IP | Yes |
| MPI | No |
| Protocols (Ethernet) | |
| • TCP/IP | Yes |
| • DHCP | Yes |
| • SNMP | Yes |
| • DCP | Yes |
| • LLDP | Yes |
| WEB characteristics | |
| • HTTP | Yes |
| • HTTPS | Yes |
| • HTML | Yes |
| • XML | No |
| • CSS | Yes |
| • Active X | No |
| • JavaScript | Yes |
| • Java VM | No |
| Further protocols | |
| • MODBUS | Yes |
| • other bus systems | No |
| communication functions / header | |
| Wireless communication | |

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| <ul style="list-style-type: none"> supported standards <ul style="list-style-type: none"> Radio standard WLAN 802.11 Bluetooth radio standard | No |
| | No |
| Interrupts/diagnostics/status information | |
| Diagnoses | |
| <ul style="list-style-type: none"> Diagnostic information readable | Yes |
| EMC | |
| Emission of radio interference acc. to EN 55 011 | |
| <ul style="list-style-type: none"> Limit class A, for use in industrial areas Limit class B, for use in residential areas | Yes |
| | No |
| Degree and class of protection | |
| IP65 (all-round) | Yes |
| Standards, approvals, certificates | |
| CE mark | Yes |
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | No; Available soon |
| Suitable for safety functions | Yes |
| Marine approval | Yes |
| Highest safety class achievable in safety mode | |
| <ul style="list-style-type: none"> Performance level according to ISO 13849-1 SIL acc. to IEC 61508 | PLe |
| | SIL 3 |
| Use in hazardous areas | |
| <ul style="list-style-type: none"> ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 cULus Class I Zone 1 cULus Class I Zone 2, Division 2 FM Class I Division 2 | No |
| | No |
| | No |
| | No |
| | No |
| | No |
| | No |
| Marine approval | |
| <ul style="list-style-type: none"> Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) | Yes |
| | Yes |
| | No; Available soon |
| | Yes |
| | No |
| | Yes |
| | Yes |
| | No |
| | No |
| Ambient conditions | |
| Free fall | |
| <ul style="list-style-type: none"> Fall height, max. | 1.2 m |
| Ambient temperature during operation | |
| <ul style="list-style-type: none"> min. max. | 0 °C |
| | 45 °C |
| Ambient temperature during storage/transportation | |
| <ul style="list-style-type: none"> min. max. | -20 °C |
| | 60 °C |
| Relative humidity | |
| <ul style="list-style-type: none"> Operation, max. | 90 % |
| Operating systems | |
| pre-installed operating system | |
| <ul style="list-style-type: none"> Windows CE | Yes |
| configuration / header | |
| Message indicator | Yes |
| Alarm system (incl. buffer and acknowledgment) | Yes |
| Process value display (output) | Yes |
| Process value default (input) possible | Yes |

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| Recipe management | Yes |
| Configuration software | |
| • STEP 7 Basic (TIA Portal) | No |
| • STEP 7 Professional (TIA Portal) | No |
| • WinCC flexible Compact | No |
| • WinCC flexible Standard | No |
| • WinCC flexible Advanced | No |
| • WinCC Basic (TIA Portal) | No |
| • WinCC Comfort (TIA Portal) | Yes |
| • WinCC Advanced (TIA Portal) | Yes |
| • WinCC Professional (TIA Portal) | Yes |
| Languages | |
| Online languages | |
| • Number of online/runtime languages | 32 |
| Project languages | |
| • Languages per project | 32 |
| Functionality under WinCC (TIA Portal) | |
| Libraries | Yes |
| Applications/options | |
| • Web browser | Yes |
| • Pocket Word | No |
| • Pocket Excel | No |
| • PDF Viewer | Yes |
| • Media Player | No |
| • SIMATIC WinCC Sm@rtServer | Yes |
| • SIMATIC WinCC Audit | Yes |
| Number of Visual Basic Scripts | Yes |
| Task planner | |
| • time-controlled | Yes |
| • task-controlled | Yes |
| Help system | |
| • Number of characters per info text | 500 |
| Multiproject | |
| • Number of projects (internal) | 0 |
| • Number of projects (external) | 0 |
| Message system | |
| • Number of alarm classes | 32 |
| • Bit messages | |
| — Number of bit messages | 4 000 |
| • Analog messages | |
| — Number of analog messages | 200 |
| • S7 alarm number procedure | Yes |
| • System messages HMI | Yes |
| • System event, more (SIMATIC S7, SINUMERIK, SIMOTION, ...) | Yes |
| • Number of characters per message | 80 |
| • Number of process values per message | 8 |
| • Acknowledgment groups | Yes |
| • Message indicator | Yes |
| • Message buffer | |
| — Number of entries | 1 024 |
| — Circulating buffer | Yes |
| — retentive | Yes |
| — maintenance-free | Yes |
| Recipe management | |
| • Number of recipes | 300 |
| • Data records per recipe | 500 |
| • Entries per data record | 1 000 |
| • Size of internal recipe memory | 2 Mbyte |
| • Recipe memory expandable | Yes |

| Variables | |
|--|--------|
| • Number of variables per device | 2 048 |
| • Number of variables per screen | 50 |
| • Limit values | Yes |
| • Multiplexing | Yes |
| • Structures | Yes |
| • Arrays | Yes |
| Images | |
| • Number of configurable images | 500 |
| • Permanent window/default | Yes |
| • Global image | Yes |
| • Pop-up images | Yes |
| • Slide-in images | Yes |
| • Image selection by PLC | Yes |
| • Image number in the PLC | Yes |
| Image objects | |
| • Number of objects per image | 50 |
| • Text fields | Yes |
| • I/O fields | Yes |
| • Graphic I/O fields (graphics list) | Yes |
| • Symbolic I/O fields (text list) | Yes |
| • Date/time fields | Yes |
| • Switches | Yes |
| • Graphic display | Yes |
| • Icons | Yes |
| • Geometric objects | Yes |
| Complex image objects | |
| • Number of complex objects per screen | 5 |
| • Alarm view | Yes |
| • Trend view | Yes |
| • User view | Yes |
| • Status/control | Yes |
| • Sm@rtClient view | Yes |
| • Recipe view | Yes |
| • f(x) trend view | Yes |
| • System diagnostics view | Yes |
| • Media Player | No |
| • HTML browser | No |
| • PDF display | No |
| • IP camera display | Yes |
| • Bar graphs | Yes |
| • Sliders | Yes |
| • Pointer instruments | Yes |
| • Analog/digital clock | Yes |
| Lists | |
| • Number of text lists per project | 500 |
| • Number of entries per text list | 500 |
| • Number of graphics lists per project | 500 |
| • Number of entries per graphics list | 500 |
| Archiving | |
| • Number of archives per device | 50 |
| • Number of entries per archive | 20 000 |
| • Message archive | Yes |
| • Process value archive | Yes |
| • Archiving methods | |
| — Sequential archive | Yes |
| — Short-term archive | Yes |
| • Memory location | |
| — Memory card | No |
| — USB memory | Yes |

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|--|-------------------------|
| — Ethernet | Yes |
| • Data storage format | |
| — CSV | Yes |
| — TXT | No |
| — RDB | Yes |
| Security | |
| • Number of user groups | 50 |
| • Number of user rights | 32 |
| • Number of users | 50 |
| • Password export/import | Yes |
| • SIMATIC Logon | Yes |
| Logging through printer | |
| • Alarms | Yes |
| • Report (shift log) | Yes |
| • Hardcopy | Yes |
| • Electronic print to file | No |
| Character sets | |
| • Keyboard fonts | |
| — US English | Yes |
| Transfer (upload/download) | |
| • MPI/PROFIBUS DP | No |
| • USB | No |
| • Ethernet | Yes |
| • Wireless LAN | No |
| • using external storage medium | Yes; Backup/restore |
| Process coupling | |
| • S7-1200 | Yes |
| • S7-1500 | Yes |
| • S7-200 | Yes |
| • S7-300/400 | Yes |
| • LOGO! | Yes |
| • WinAC | Yes; WinAC RTX |
| • SINUMERIK | Yes; without NC channel |
| • SIMOTION | Yes |
| • Allen Bradley (EtherNet/IP) | Yes |
| • Allen Bradley (DF1) | No |
| • Mitsubishi (MC TCP/IP) | Yes |
| • Mitsubishi (FX) | No |
| • OMRON (FINS TCP) | No |
| • OMRON (LINK/Multilink) | No |
| • Modicon (Modbus TCP/IP) | Yes |
| • Modicon (Modbus) | No |
| • OPC UA Client | Yes |
| • OPC UA Server | Yes |
| Service tools/configuration aids | |
| • Backup/Restore manually | Yes |
| • Backup/Restore automatically | No |
| • Simulation | Yes |
| • Device switchover | Yes |
| Peripherals/Options | |
| Printer | Yes |
| SIMATIC HMI MM memory card: Multi Media Card | No |
| SIMATIC HMI SD memory card: Secure Digital memory card | No |
| SIMATIC HMI CF memory card Compact Flash Card | No |
| USB memory | Yes |
| SIMATIC IPC USB Flashdrive (USB stick) | Yes |
| SIMATIC HMI USB stick | Yes |
| Network camera | Yes |
| Additional software components loadable | Yes; SIMATIC options |

| Mechanics/material | |
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| Enclosure material (front) | |
| <ul style="list-style-type: none"> • Plastic • Aluminum • Stainless steel | Yes No No |
| Dimensions | |
| Width of the housing front | 194 mm |
| Height of housing front | 166 mm |
| Weights | |
| Weight (without packaging) | 0.7 kg |
| Weight (with packaging) | 0.95 kg |
| last modified: | 3/2/2021  |